
Fixed partial denture
(Bridge)FPD

-DEFINATION

-COMPONENT

-CLASSIFICATION

-RESIN BONDED FIXED PARTIAL DENTURE

FIXED PROSTHODONTICS

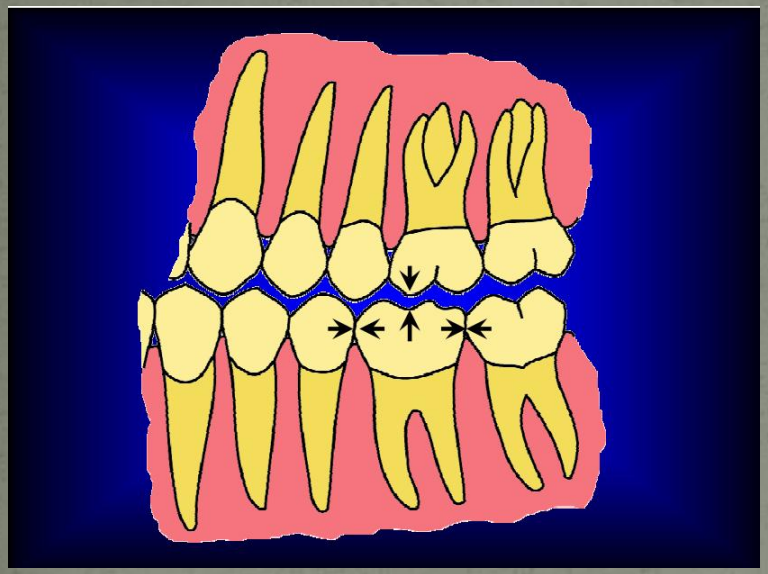
? Is the art and science of restoring damaged teeth, and replacing missing teeth with fixed artificial substitutes that are not readily removable from the mouth

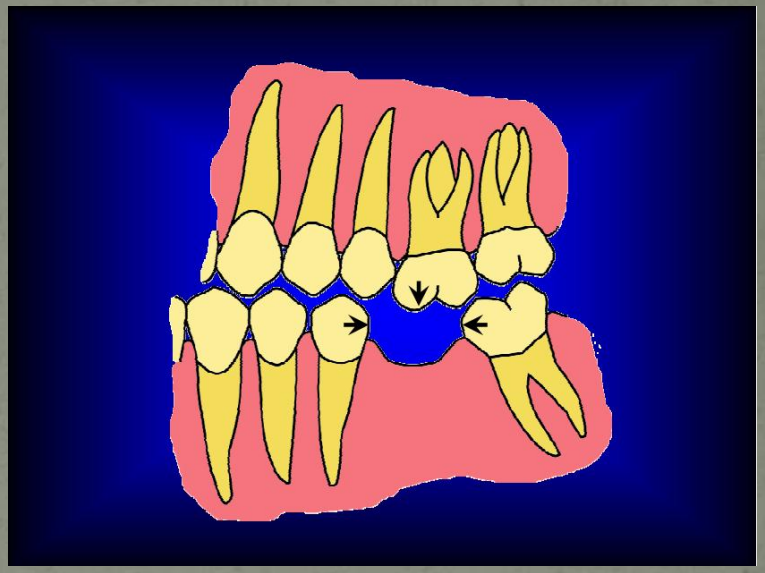
- Its focus is to restore function, esthetics, and comfort and to maintain the health and integrity of the dental arches.

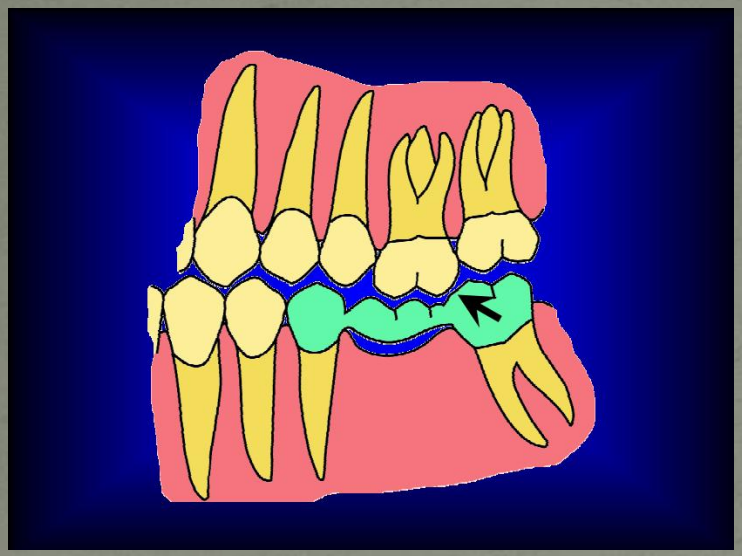


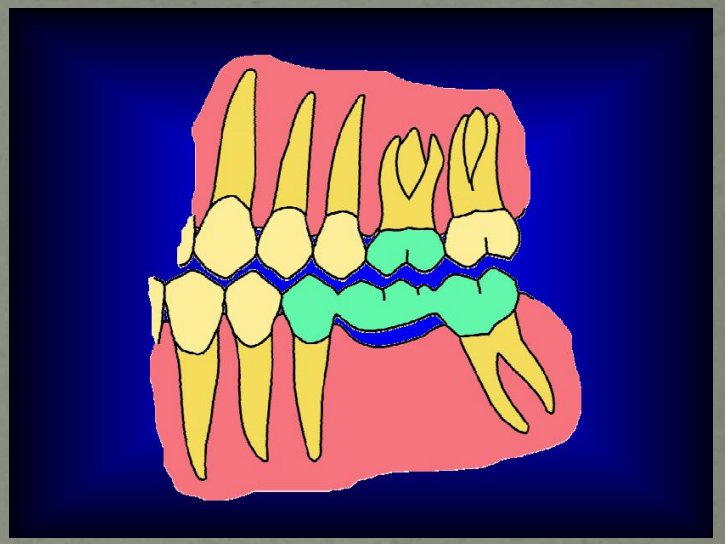
Fixed prosthesis

Removable prosthesis



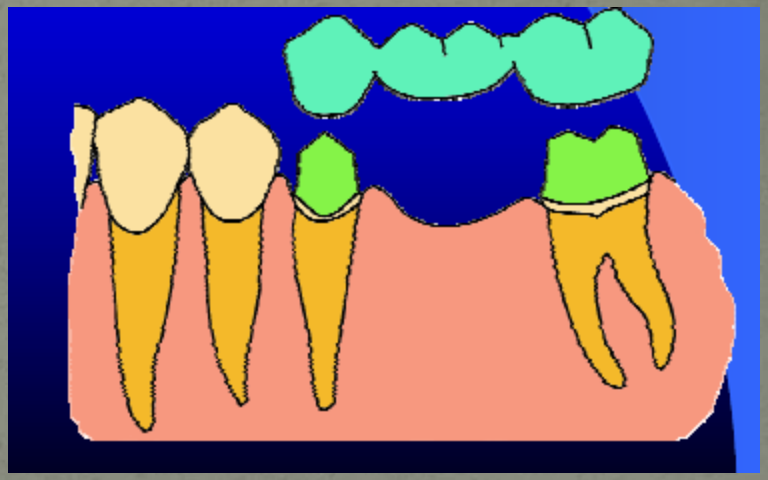






FPD

An appliance of one or more artificial teeth spanning on edentulous space in dental arch and anchored on the adjacent teeth at one or both ends.

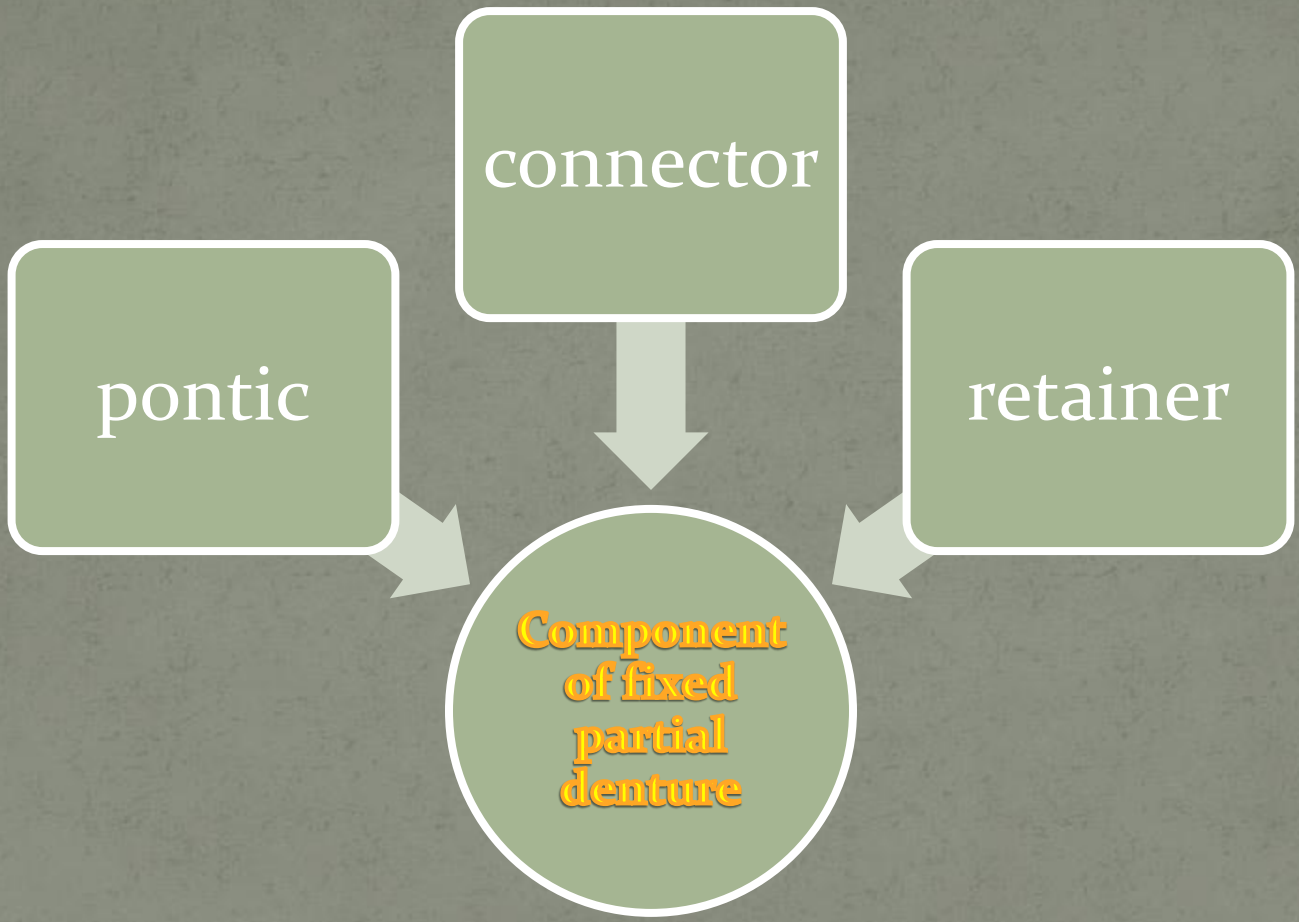






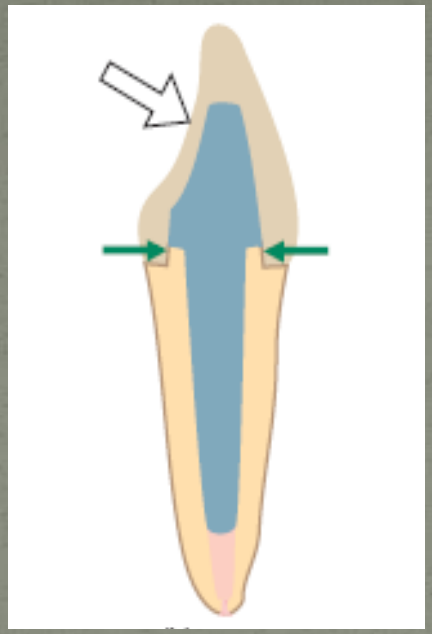


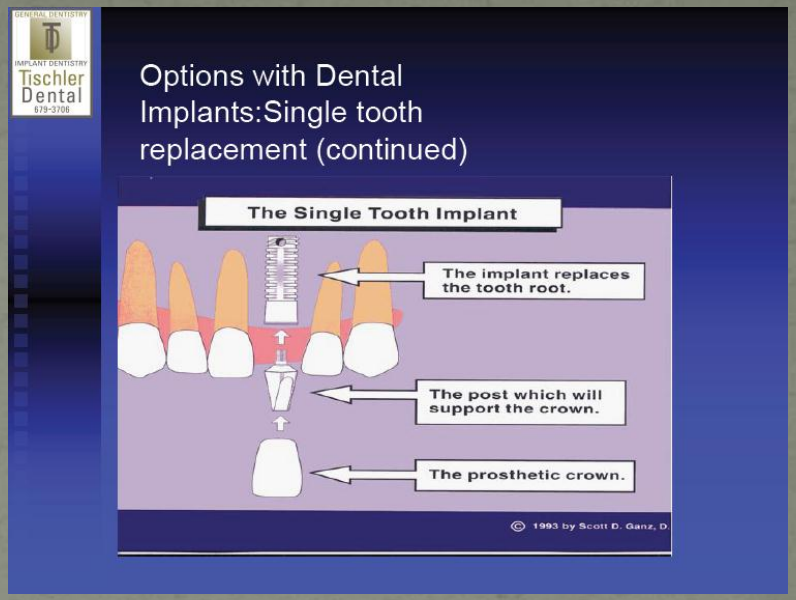



connector
pontic
retainer
Component of fixed partial denture

Abutment tooth

A tooth, root, or implant which support and retained a fixed or removable prosthesis at one or both ends.




GENERAL DENTISTRY
IMPLANT DENTISTRY
Tischler Dental
679-3706
Options with Dental Implants:Single tooth replacement (continued)
The Single Tooth Implant
The implant replaces the tooth root.
The post which will support the crown.
The prosthetic crown.
© 1993 by Scott D. Ganz, D.

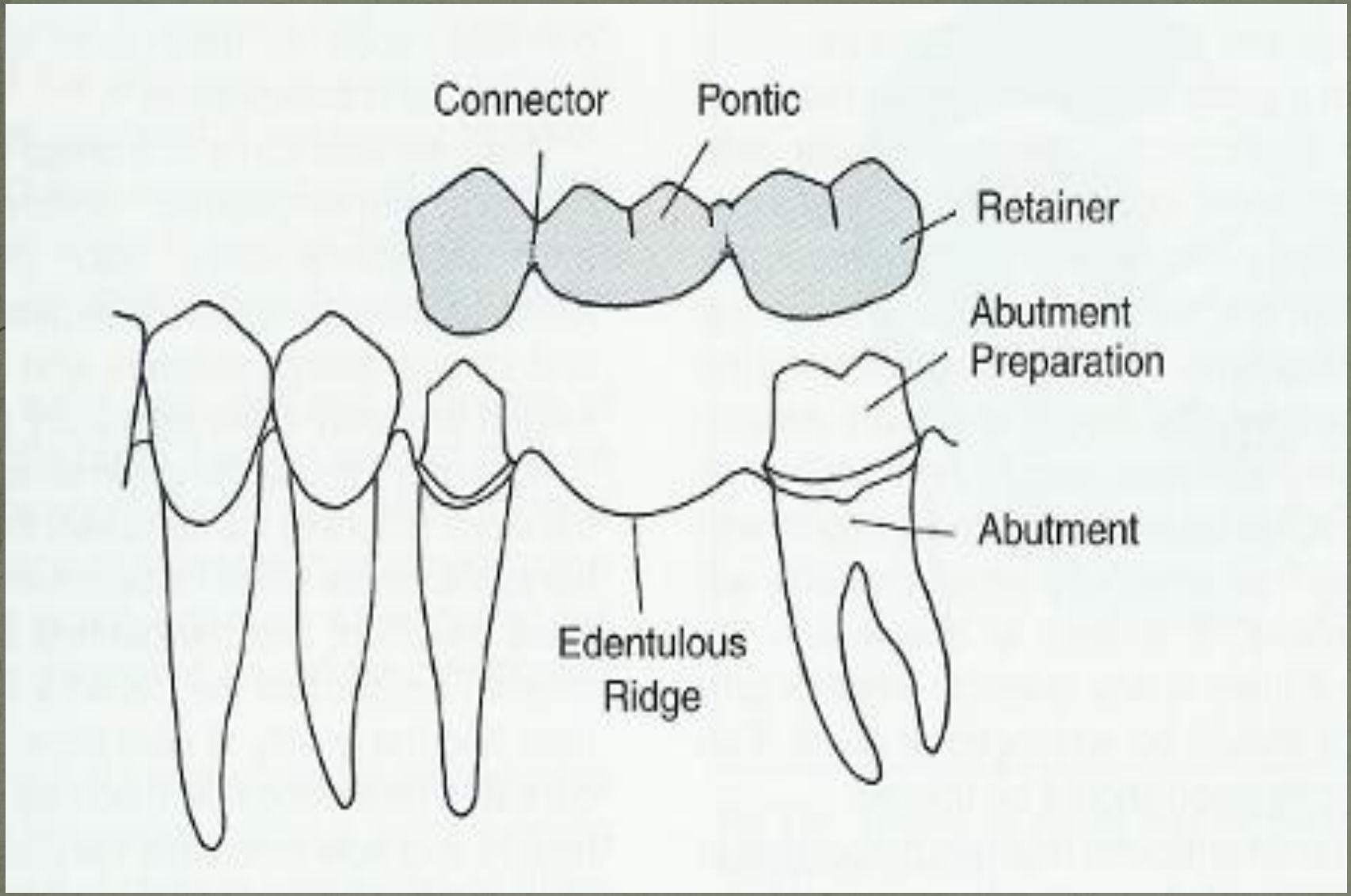


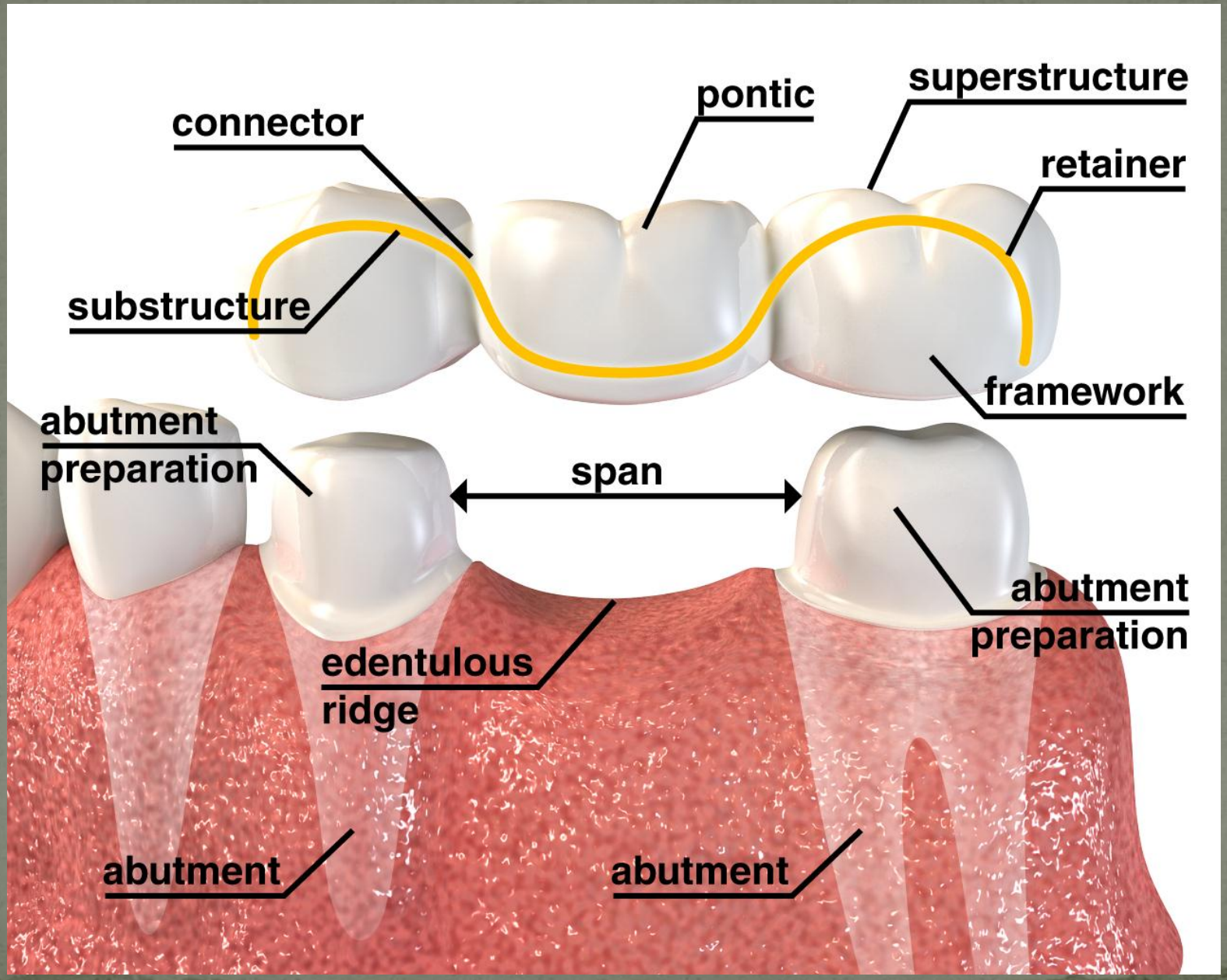
Retainer

Is the restoration restored the prepared tooth substances and by means of which the pontic anchored to the abutment teeth.

connector

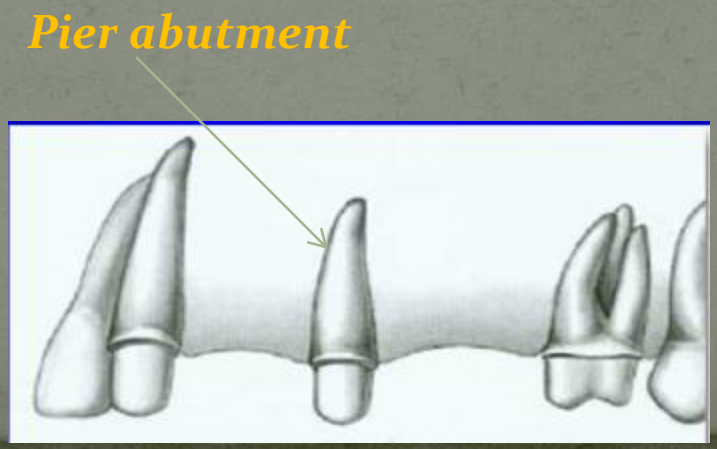
The part of the bridge joining the pontics with retainers


Connector
Pontic
Retainer
Abutment
Preparation
Abutment
Edentulous
Ridge


connector
pontic
superstructure
retainer
substructure
framework
abutment
preparation
span
abutment
preparation
edentulous
ridge
abutment
abutment

Pier abutment (Intermediate abutment)

Is an isolated abutment tooth where the anterior and posterior adjacent teeth are missing






Classification
CROWNS
According to coverage
Full coverage
Partial coverage

I-full coverage :

retained mainly by:

- **A- Encircling the preparation.**
 - 1 -metallic
 - (metal cast crown)
 - 2 –nonmetallic
 - **(porcelain jacket crown)**
 - 3 –combination
 - **veneered with acrylic or porcelain (labially or buccally).**
 - **full veneered with acrylic or porcelain.**

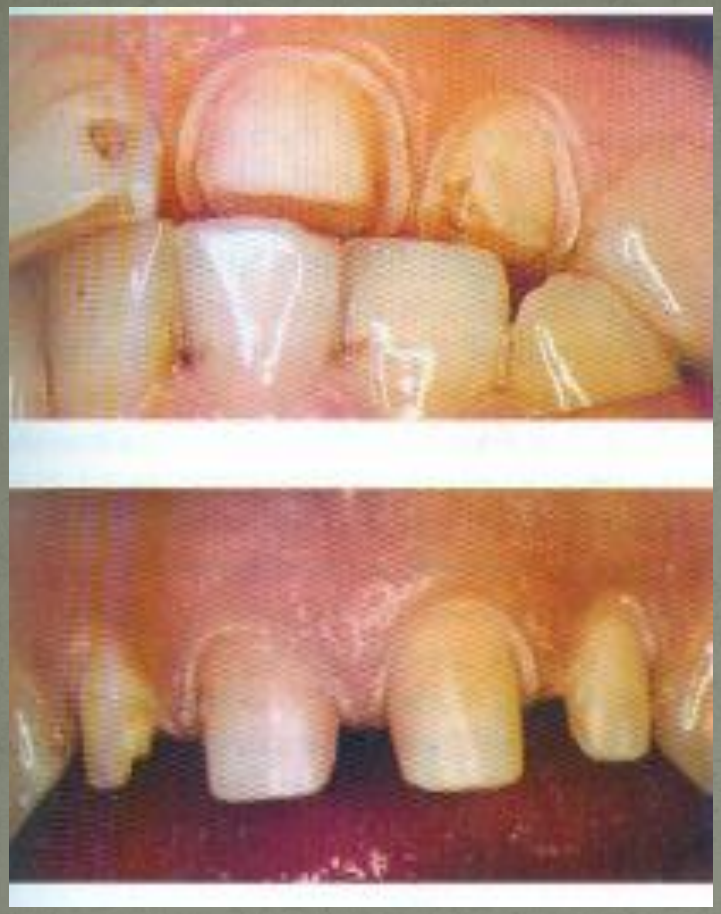
- **B- Post in the root canal:**
 - 1)Retained by :
 - a)post only.
 - b)post and collar
 - 2)posterior posts:
 - a)Attached.
 - b)detached.
 - 3)material:
 - a)All-metallic.
 - b) non metallic
 - c)combined

- C- Retained by both methods
 - Post - crown

II. partial coverage:

Retained mainly by:

- 1)Grooves:
 - a. Three quarter crown ¾ .
 - b. Half veneer crown ½ .
 - c. Mac-Boyle retainer
 - D. seven eights crowns 7/8 .
- 2)pins:
 - pin-ledge retainer. .
- 3)combined means of retention:
 - Modified types including both grooves and pins.



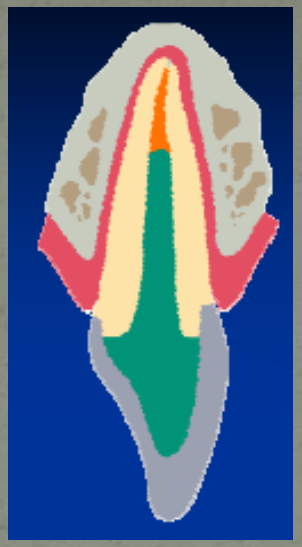


Full coverage preparation

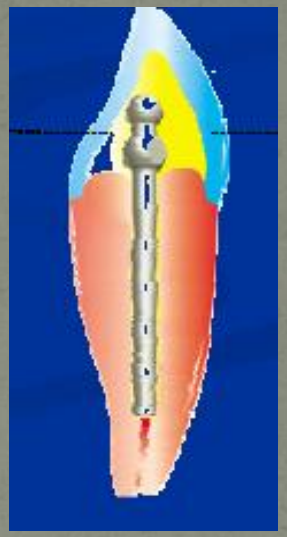


Attached post cr

2 piece



3 piece



Detached





Partial coverage (/)





Seven-Eighths crowns



Half crown



Retention by pins



Retention by grooves & pin



Gold cr

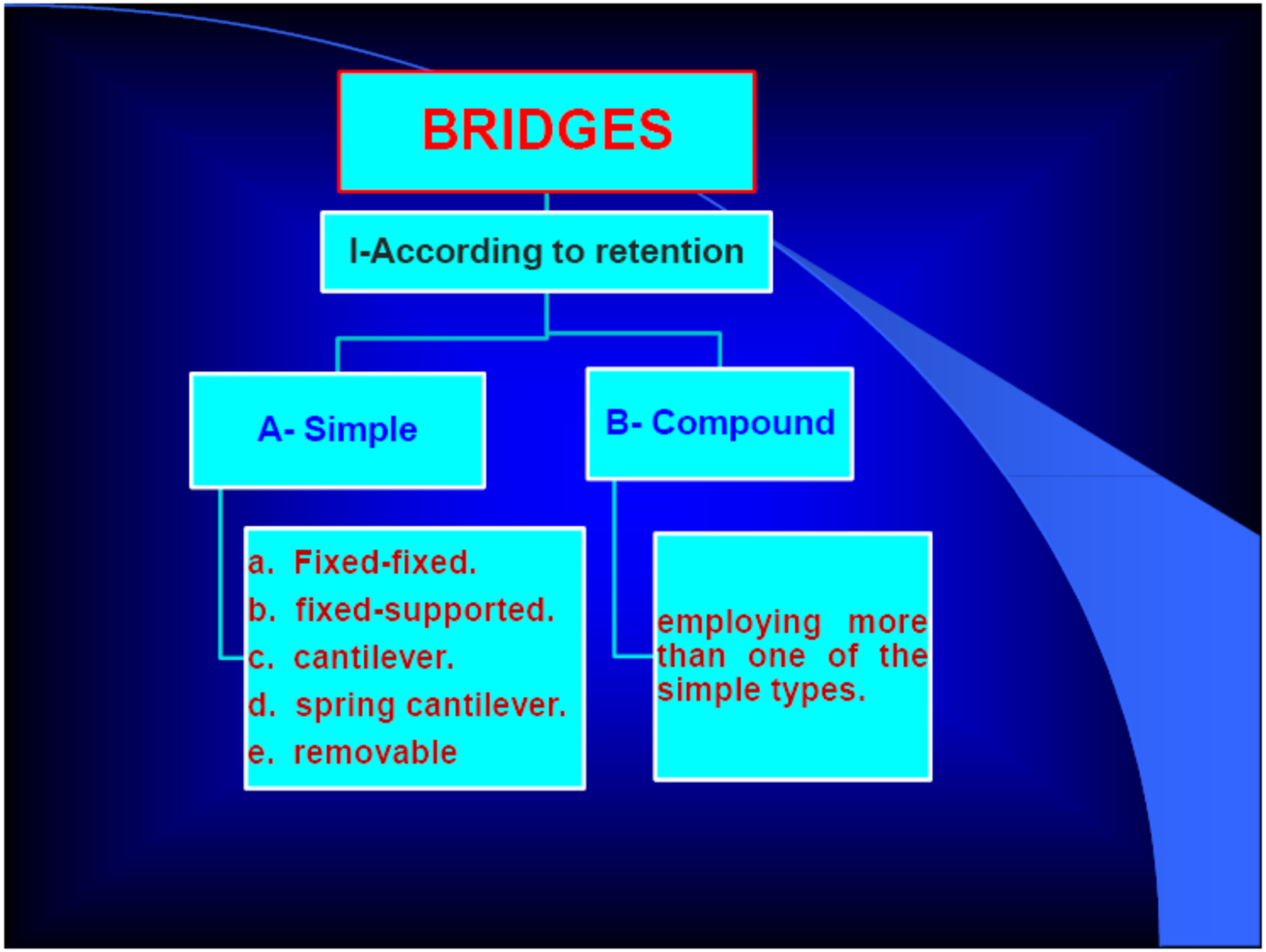


Conventional porcelain jacket crowns on all four upper incisors



Full metal cr

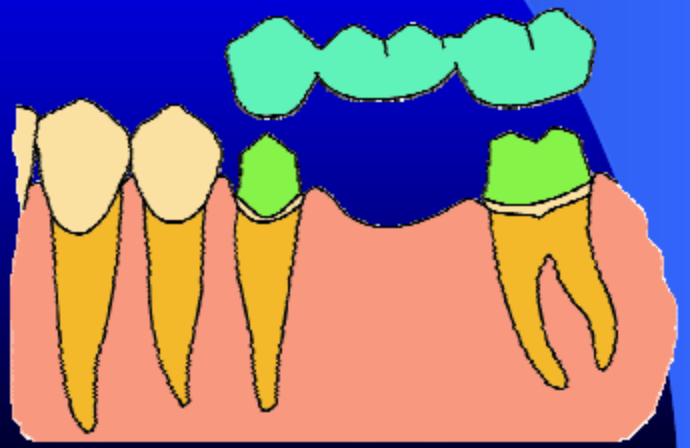



BRIDGES
I-According to retention
A- Simple
B- Compound
a. Fixed-fixed.
b. fixed-supported.
c. cantilever.
d. spring cantilever.
e. removable
employing more than one of the simple types.

Fixed fixed bridge;

(fixed bridge), (rigid bridge), (fixed rigid bridge), (stationary-fixed bridge)

- Is a bridge where the abutment pieces are all soldered together and the bridge is cemented at both ends to the abutment teeth.



Fixed supported bridge;

(fixed-movable), (limited stationary), (broken stress bridge), (semi-rigid),(fixed-semirigid bridge).

- Is a bridge which is not actually joined to one of the terminal abutment teeth but is connected to it by means of a non-rigid connector allowing some individual movement of the abutment tooth.



Cantilever bridge

- Is a bridge where the pontic is fixed to and derives its support from one ore double retainers at one end only while the other end is unsupported.





Spring Cantilever bridge

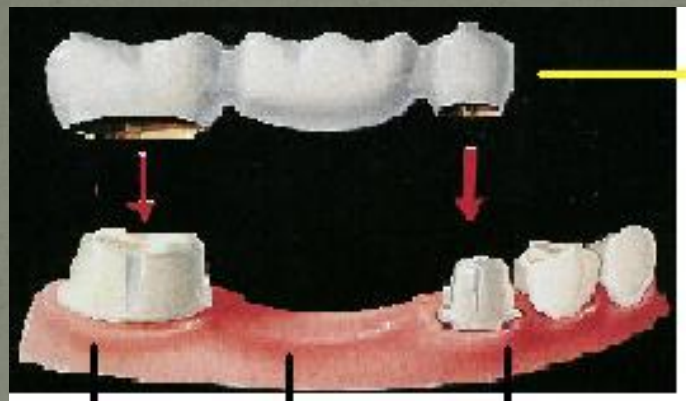
- Is a cantilever bridge where the pontic is at the end of slightly resilient curved arm deriving its support from an abutment remote from the edentulous span







Fixed fixed br



3 UNITED CROWNS = 3 UNIT BRIDGE

MISSING TOOTH

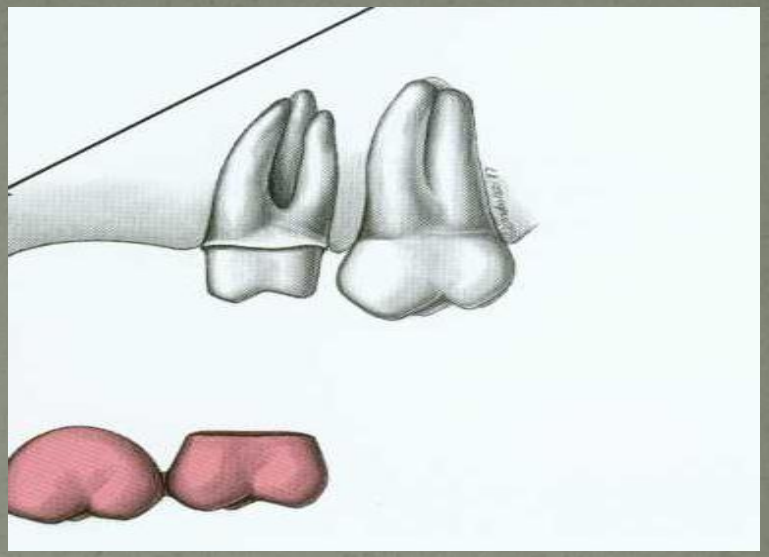
TEETH PREPARED FOR CROWNS



PONTIC/FAKE TOOTH

3 UNIT BRIDGE





cantilever



Fixed support br



Spring cantilever

Removable bridge;

(precision attachment bridge).
(removable partial denture with internal attachment).

- Is a bridge each retainer consists of two parts, one fixed to the abutment tooth and one soldered to the pontic.

- The bridge can be removed at the will of and by the patient for cleansing purposes.

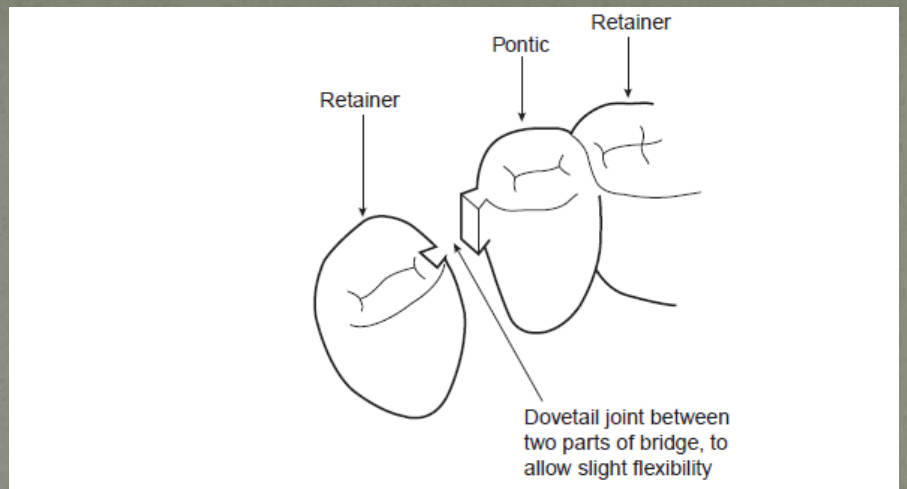
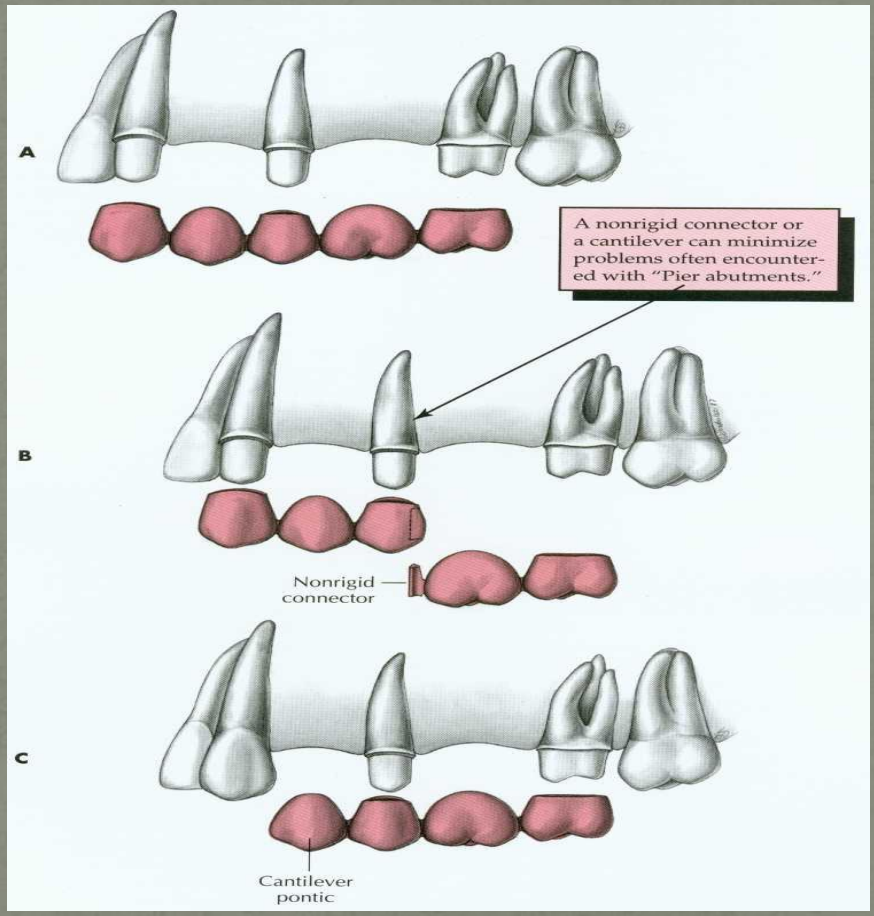
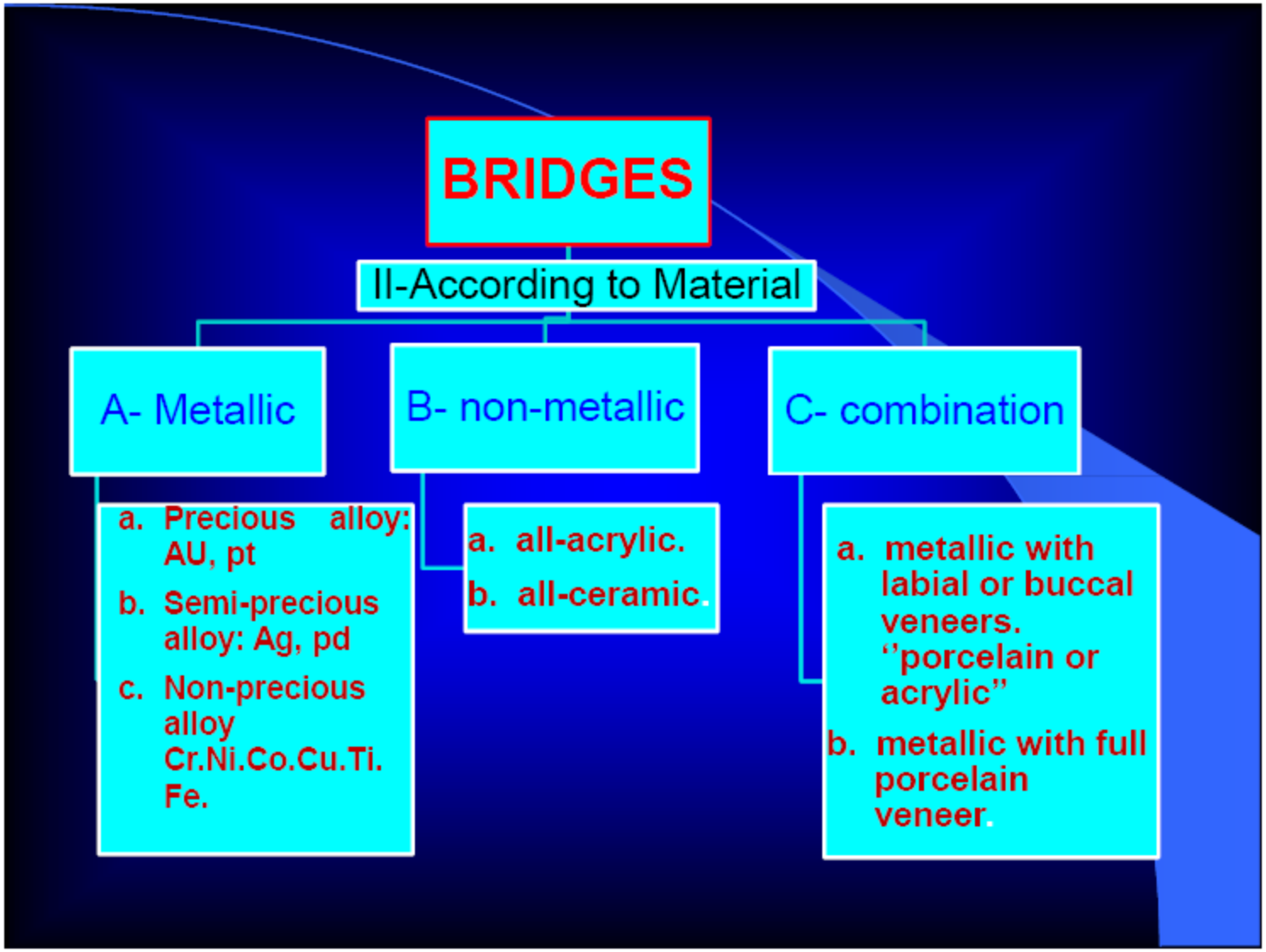


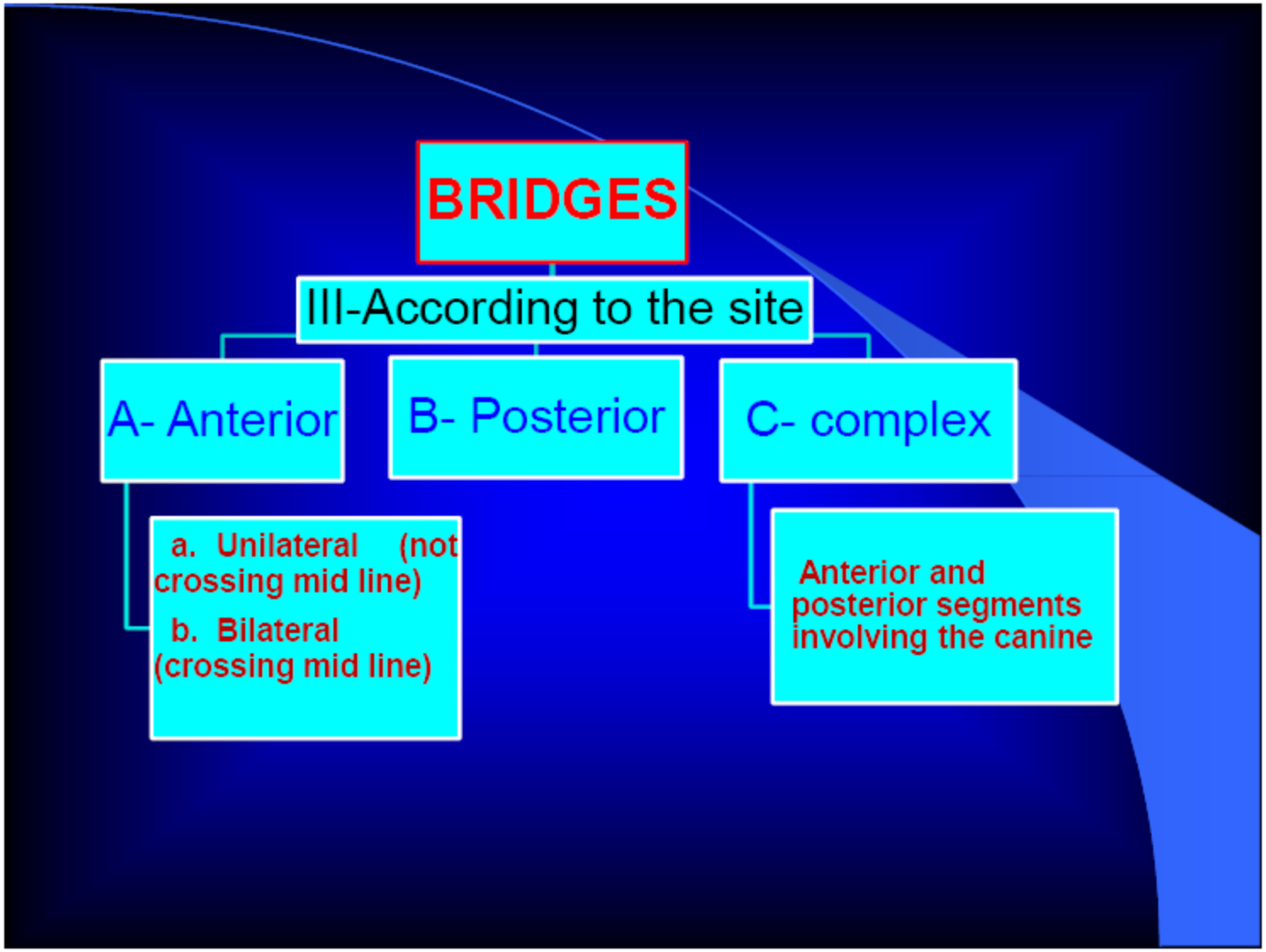
Fig. 10.9 Fixed–moveable bridge.



Compound bridge




BRIDGES
II-According to Material
A- Metallic
B- non-metallic
C- combination
a. Precious alloy: AU, pt
b. Semi-precious alloy: Ag, pd
c. Non-precious alloy Cr.Ni.Co.Cu.Ti. Fe.
a. all-acrylic.
b. all-ceramic.
a. metallic with labial or buccal veneers. ''porcelain or acrylic''
b. metallic with full porcelain veneer.


BRIDGES
III-According to the site
A- Anterior
B- Posterior
C- complex
a. Unilateral (not crossing mid line)
b. Bilateral (crossing mid line)
Anterior and posterior segments involving the canine





Anterior fpd





posterior fpd



Bilateral fpd



Unilateral fpd







Complex bridge

Immediate Bridge

(immediate replacement bridge),
(immediate fixed partial denture

- Is a bridge with root extension pontic. Is constructed before extraction of the tooth to be replaced, and is seated in position immediately after extraction in the same visit.







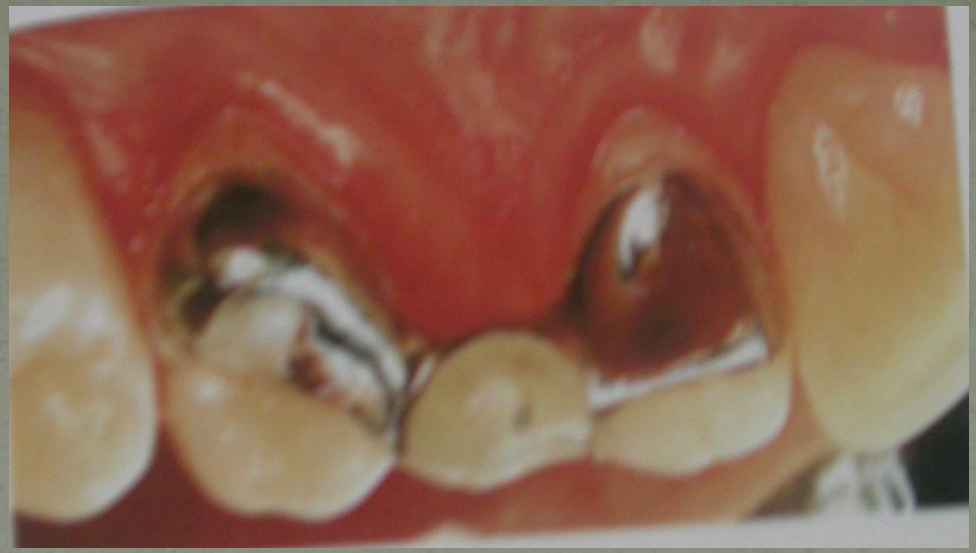
Temporary Bridge

- Is a bridge made and used temporary for the protection of the prepared teeth and maintenance of the space till completion and cementation of the permanent bridge





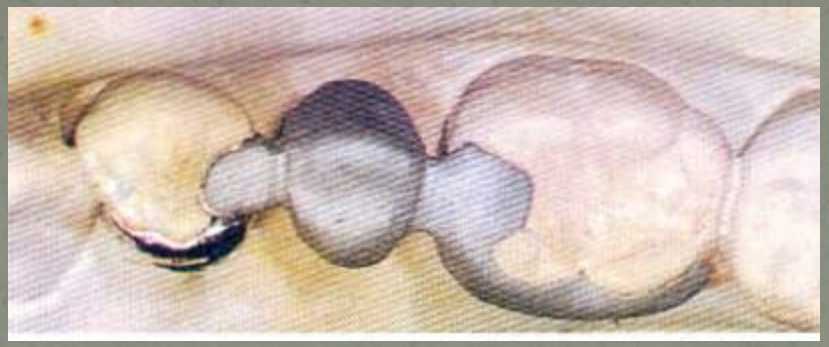
RESIN BONDED FIXED PARTIAL DENTURE














Any question